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Form 3160-5  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Birmingham Field Office  
Bureau of Land Management

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
**MDA 701-98-0013, Tract 2**

6. If Indian, Allottee, or Tribe Name  
**Jicarilla Apache Tribe**

7. If Unit or CA. Agreement Name and/or No.

8. Well Name and No.  
**Jicarilla 29-02-29 #43**

9. API Well No.  
**30-039-29529**

10. Field and Pool, or Exploratory Area  
**Burro Canyon Tert. & E. Blanco PC**

11. County or Parish, State  
**Rio Arriba County**

**SUBMIT IN TRIPLICATE - Other Instructions on page 2.**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**Black Hills Gas Resources, Inc.**

3a. Address  
**3200 N 1st St, Bloomfield, NM 87413**

3b. Phone No. (include area code)  
**(505) 634-5104**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**745' FSL & 2190' FEL Sec.29 T29N R1W (UL: O)**

**12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION		TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production ( Start/ Resume)	<input type="checkbox"/> Water Shut-off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>Corrected</b>	
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	<b>Total Depth</b>	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal		

\*13. Describe Proposed or Completed Operation Clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

**Per the Notice of Intent dated February 21, 2013, to plug and abandon Jicarilla 29-02-29 #43, Black Hills Gas Resources is submitting the attached plug and abandon procedure.**

**Corrected TD 3,640'**

**RCVD APR 5 '13  
OIL CONS. DIV.  
DIST. 3**

**Notify NMOCD 24 hrs  
prior to beginning  
operations**

14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed)

**Daniel Manus**

**Regulatory Technician**

Title

Signature

Date

**April 1, 2013**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

**Original Signed: Stephen Mason**

Title

Date

**APR 04 2013**

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**NMOCD**

## PLUG AND ABANDONMENT PROCEDURE

March 20, 2013

### Jicarilla 29-02-29 #43

East Blanco PC / Burro Canyon; Tertiary  
745' FSL, 2190' FEL, Section 29, T29N, R2W, Rio Arriba County, NM  
API 30-039-29529 / Long: \_\_\_\_\_ / Lat: \_\_\_\_\_

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.

3. Rods: Yes \_\_\_\_\_, No , Unknown \_\_\_\_\_.  
Tubing: Yes , No \_\_\_\_\_, Unknown \_\_\_\_\_, Size 2-3/8", Length 2621'.  
Packer: Yes \_\_\_\_\_, No , Unknown \_\_\_\_\_, Type \_\_\_\_\_.  
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.

**NOTE: PU tubing workstring, drill collars and mill. TIH and mill out CIBP(s) at 2648' and 2650'. Circulate well clean.**

4. **Plug #1 (Pictured Cliffs interval and Fruitland, Kirtland, Ojo Alamo tops, 3490' – 3072')**: PUH tubing workstring and TIH; tag existing CIBP at 3490'. Mix 53 sxs Class B cement and spot a balanced plug inside the casing above the CIBP to isolate the PC interval and cover through the Ojo Alamo top. TOH with tubing.
5. **Plug #2 (Nacimiento perforations and top and San Jose perforations, 2345' – <sup>1910</sup>1964')**: TIH and set 5.5" CR at 2345'. Mix 53 sxs Class B cement (100% excess over SJ perforations) and spot a balanced plug inside the casing above the CR to isolate the Nacimiento perforations, cover the Nacimiento top through the San Jose perforations. TOH with tubing and WOC. TIH and tag cement at least 50' above top perforations. If necessary top off plug. TOH.
6. **Plug #3 (8-5/8" Surface casing shoe, 348' - Surface)**: Perforate 3 squeeze holes at 348'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 110 sxs Class B cement and pump down the 5.5" casing to circulate good cement out bradenhead. Shut in well and WOC.
7. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

# Jicarilla 29-02-29 #43

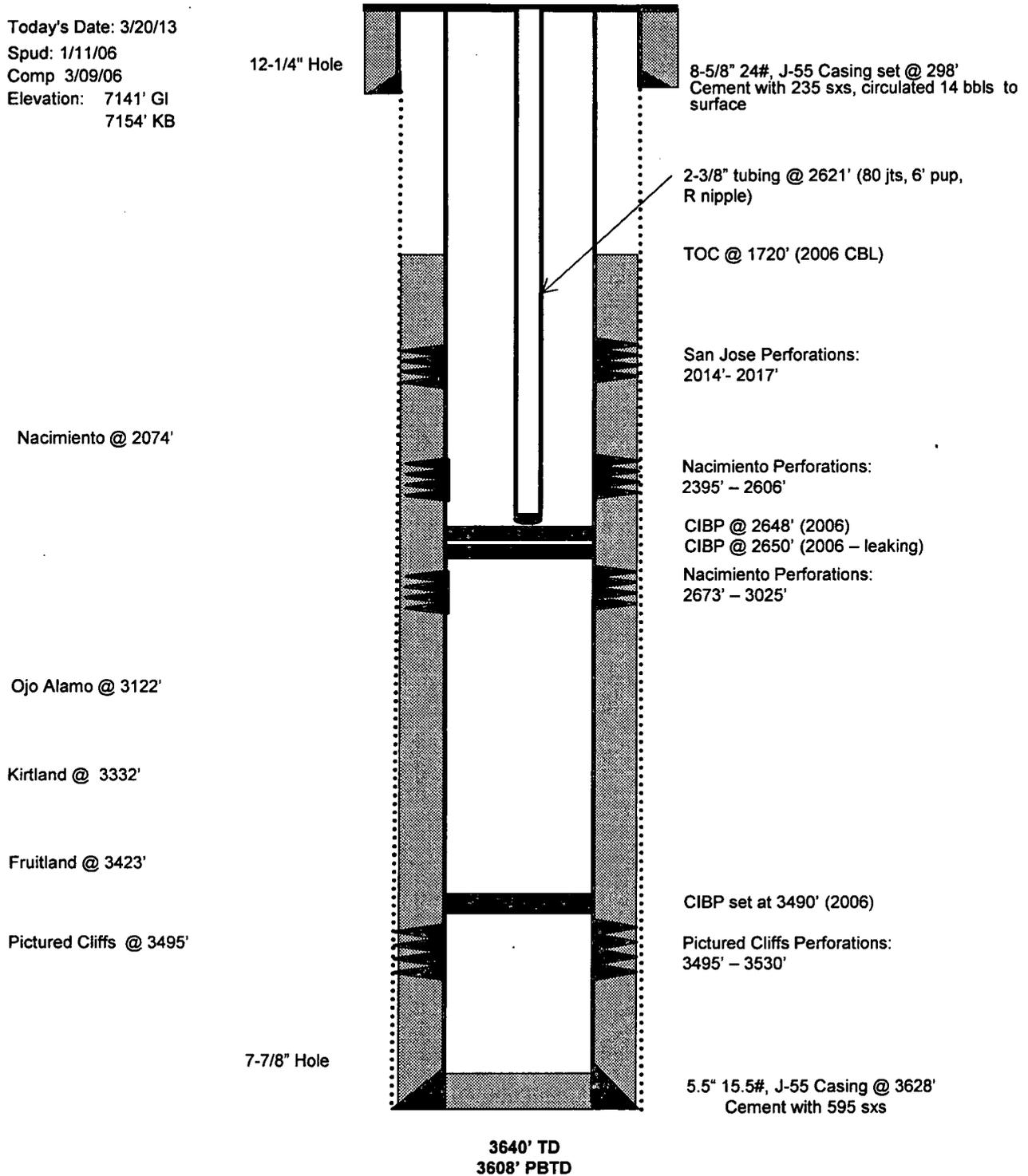
## Current

East Blanco PC/ Burro Canyon; Tertiary

745' FSL & 2190' FEL, Section 29, T-29-N, R-2-W, Rio Arriba County, NM

Long: \_\_\_\_\_ / Lat: \_\_\_\_\_ / API 30-039-29529

Today's Date: 3/20/13  
Spud: 1/11/06  
Comp 3/09/06  
Elevation: 7141' GI  
7154' KB



# Jicarilla 29-02-29 #43

## Proposed P&A

East Blanco PC/ Burro Canyon; Tertiary

745' FSL & 2190' FEL, Section 29, T-29-N, R-2-W, Rio Arriba County, NM

Long: \_\_\_\_\_ / Lat: \_\_\_\_\_ / API 30-039-29529

Plug #3: 348' - 0'  
Class B cement, 110 sxs

Today's Date: 3/20/13  
Spud: 1/11/06  
Comp 3/09/06  
Elevation: 7141' GI  
7154' KB

12-1/4" Hole

8-5/8" 24#, J-55 Casing set @ 298'  
Cement with 235 sxs, circulated 14 bbls to surface

Perforate @ 348'

TOC @ 1720' (CBL.)

San Jose Perforations:  
2014' - 2017'

Plug #2: 2345' - 1964'  
Class B cement, 53 sxs  
(100% excess over SJ perforations)

Nacimiento @ 2074'

Set CR @ 2345'

Nacimiento Perforations:  
2395' - 2606'

Nacimiento Perforations:  
2673' - 3025'

Ojo Alamo @ 3122'

Plug #1: 3490' - 3072'  
Class B cement, 53 sxs

Kirtland @ 3332'

Fruitland @ 3423'

CIBP set at 3490' (2006)

Pictured Cliffs @ 3495'

Pictured Cliffs Perforations:  
3495' - 3530'

7-7/8" Hole

5.5" 15.5#, J-55 Casing @ 3628'  
Cement with 595 sxs

3640' TD  
3608' PBSD

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: 43 Jicarilla 29-02-29

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
  - a) Bring the top of the Nacimiento plug to 1910'.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.